

Hafler

MODEL 200 LOUDSPEAKER SYSTEM

**HAFLER
A DIVISION OF
ROCKFORD CORPORATION
TEMPE, ARIZONA**



ACKNOWLEDGEMENT

Your new HAFLER Model 200 Loudspeakers were designed and manufactured to achieve a high level of sonic performance. We are confident that the Model 200 Loudspeakers will serve you well as the final link in your audio system. If you have any questions or comments feel free to contact our facilities.

GENERAL INFORMATION

The HAFLER Model 200 Loudspeaker systems are equipped with removable cloth grilles. To remove the grille assemblies, gently pull out one corner and slowly work off the other three corners. To replace the grille assemblies, align the nylon male/female fasteners and gently tap on each corner.

With the grilles removed, you will notice that the Model 200 Loudspeakers operate as a mirror imaged pair. Correct positioning places the high frequency driver (which is on the same side as the HAFLER logos) to the outside, relative to the listening area. Proper right/left configuration is critical for optimum sonic performance.

A purchase registration card has been included with your Model 200 Loudspeakers. Please complete the card and return it to our facilities. The Model 200 Loudspeakers are covered under a five year limited warranty.

HAFLER recommends that all packaging be kept for future use. The carton is easily flattened by slitting the tape on both ends. It can then be re-taped for transporting the speakers.

PORT PLUG

The *PORT PLUG*, included with the Model 200 Loudspeaker systems, is used to prevent the enclosure/port tuning effect. This may be desirable when matching the Model 200 Loudspeakers with additional low frequency systems (subwoofers) or loading them into corners (see section on placement).

When using additional low frequency systems, the Model 200 loudspeakers are not required to reproduce low frequencies and should be used with a high pass crossover. Depending on the type of crossover and the crossover frequency, the port output may still be present and contribute to the overall system response.

The *PORT PLUG* eliminates the tuned output and effectively seals the enclosure. Therefore, reducing the low frequency output and providing an air spring for the low frequency driver. The air spring provides a back pressure to the woofer and reduces its motion which results in an increase in the ability to handle large low frequency transients.

Normally, the Model 200 Loudspeakers should be used without the *PORT PLUG*. Use the *PORT PLUG* when the above situations arise. Although using the *PORT PLUG* in the normal mode of operation will not damage the Model 200 Loudspeakers, the tonal balance will be affected.

WIRING

Maintaining proper polarity when wiring the speakers is important. Improper wiring will degrade the sonic performance of your audio system. Low frequency output will be mostly affected due to phase cancellation. The input terminal is clearly marked denoting plus (+) as red and minus (-) as black. Maintaining the plus/minus convention throughout your system will ensure proper performance. As a quick check, reverse the polarity of one speaker and listen to the result.

The type of wire you use is entirely up to you. However, we do recommend that you use the minimum lengths of wire required for your installation. Generally, heavier wire (lower gauge numbers) reduces the potential for signal losses.

The input terminal is located towards the bottom of the rear panel. Binding post terminals are utilized which can accomodate a variety of connectors; banana type plug, spade terminal, pin terminal, or bare wire. A tight connection will ensure reliable operation.

PLACEMENT

The HAFLER Model 200 Loudspeakers are compact and lend themselves to a number of installations. Proper placement within your listening environment may greatly enhance your listening experience. Since each application is unique, we encourage you to experiment with where you place your speakers, keeping the following guidelines in mind:

Distance between two loudspeakers affects stereo imaging. If the loudspeakers are brought closer together, the sound stage will become narrower. Increasing the distance between two loudspeakers may create a hole within the soundstage. Pointing them inward, relative to the listening area, may help imaging for speakers placed very far apart. For a well defined soundstage, we recommend that the speakers be placed six to eight feet apart.

Low frequency output can be adjusted by boundary proximity. Moving a speaker closer to a boundary enhances the bass output. For optimum sonic performance, we recommend the use of optional stands with the Model 200 Loudspeakers. Placing the stands with the speakers two to three feet from the rear boundary will produce a well balanced soundfield.

The Model 200 Loudspeakers are compact enough to fit onto a book-shelf or entertainment center. In these applications, the speakers should be placed at least four to six inches from the rear boundary. This distance is critical for proper vent/port operation. Utilizing the *PORT PLUG* in this application may be desirable to balance the low frequency output. Feel free to experiment.

CARE

The hardwood cabinets are finished with Watco Danish Oil which penetrates and hardens the wood. Periodic maintenance and cleaning will add longevity to your speakers' finish. We recommend wiping down the entire cabinet with lemon oil and buffing with a soft clean cloth. Furniture polish containing waxes is not recommended.

Accumulated dust may be removed from the grille assembly by using a feather duster gently and sparingly. You may want to remove the grille from the speaker before dusting.

The drive units in your Model 200 Loudspeaker system are very delicate devices. If they become dusty, gently go over them with a feather duster. It is important not to damage or puncture the driver diaphragms.

SPECIFICATIONS

FREQUENCY RANGE: 50 Hz. to 20 kHz.

SENSITIVITY: 88 db SPL with 1 Watt at 1 meter

IMPEDANCE: 4 Ohms nominal

POWER REQUIREMENTS: 150 Watts/channel maximum
20 Watts/channel minimum

DIMENSIONS: 8.5" x 10.25" x 14.5"

WEIGHT: 15 pounds each, unpacked

FINISH: dark oak veneer with black cloth grille

LIMITED WARRANTY

The Hafler Loudspeaker system is warranted against defective materials or workmanship for a period of five years from the original date of purchase. This warranty extends to the original purchaser and covers products purchased from an authorized HAFLER dealer only. Proof of purchase must accompany all returned items.

Defective parts will be repaired or replaced, within a reasonable amount of time, without charge for labor or materials. Warranty does not cover transportation costs to the repair site. HAFLER will return the loudspeaker to the purchaser at HAFLER'S expense when repair is covered by this warranty. This warranty does not cover damage due to negligence, misuse, shipping damage or accident.

Except as provided herein, HAFLER makes no warranties, expressed or implied, including warranties of merchantability and fitness for a particular purchase. Some states do not permit limitation or exclusion of implied warranties; therefore the aforesaid limitations or exclusions may not apply to the purchaser.

This warranty constitutes, in its entirety, HAFLER's obligation for its product. HAFLER, in no way, implies or supports warranties (to extend or broaden the scope of this warranty) which may be offered by independant dealers.

PLEASE DIRECT ALL INQUIRIES TO:

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MODEL 200

LOUDSPEAKERS

Hafler

Contemporary lifescapes limit floor space, yet the environmental demand for quality sound still exists. Economy of scale allows the Hafler Model 200 loudspeaker to integrate easily in a variety of habitats, fulfilling the spacial and human demand for musically accurate sound reproduction.

The Model 200's sloping front baffle houses a Hafler designed 6.5" midrange/bass driver and a 1" soft dome tweeter. The tweeters are precisely offset to the 6.5" driver to create a mirror image configuration. The lock-mitered, high density, oak veneer cabinet serves as a rigid foundation to eliminate coloration in the mid and low frequencies. The enclosure is tuned with a rear mounted port to extend bass performance. The crossover network seamlessly blends the drivers to yield a balanced and precise soundstage.

Designed in the Hafler tradition, the Model 200 loudspeakers share the same characteristics as all Hafler products: elegant sonic quality, simplicity of design, reliability and modesty in price.

The Hafler Model 200: economy of scale; musically accurate.

MODEL 200 SPECIFICATIONS

FREQUENCY RANGE: 50 Hz to 20 kHz

SENSITIVITY: 88 dB

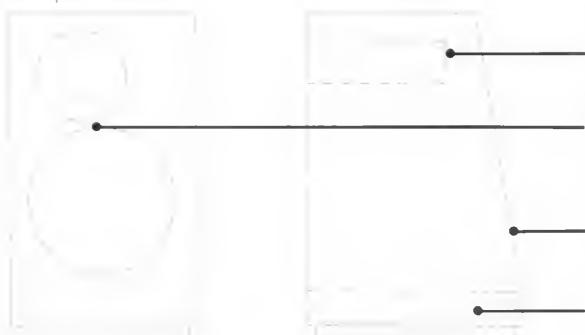
IMPEDANCE: 4 ohms nominal

POWER REQUIREMENTS: 20 watts/channel minimum

DIMENSIONS: 8½" x 10¼" x 14½"

FINISH: Dark oak veneer with black grill cloth

left speaker



REAR MOUNTED PORT: Tunes the enclosure for optimum bass performance.

MIRROR IMAGE DRIVER ARRAY: Precise offset works in conjunction with the 6.5" mid/woofer to provide precise stereo imaging.

SLOPING FRONT BAFFLE: Sloping front baffle works with the driver array to create a realistic soundstage.

OAK VENEER CABINET: Expensive, lock-miter construction creates a rigid enclosure free from coloration.



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